

Amendments to the Claims

The following listing of claims replaces all prior versions and listings of claims in the present application.

Listing of Claims:

1. (Currently Amended) A mixture supplying apparatus for a direct injection internal combustion engine, comprising:

a mixing chamber ~~that mixes~~ that has inlets for fuel with fresh air and in which the fuel and fresh air mixed ; and

a valve ~~train~~ mechanism that is operatively arranged inside the mixing chamber and that opens and shuts an ~~exhaust outlet~~ opening to ~~exhaust~~ inject the fuel-fresh air mixture from the mixing chamber; wherein

the mixture supplying apparatus is located in a cylinder of the internal combustion engine and ~~exhausts~~ injects the mixture from the ~~exhaust outlet~~ opening to the cylinder, the valve train being in the mixing chamber and equipped with a spring arranged to move a valve in a shutting direction.

2. (Currently Amended) A mixture supplying apparatus for a direct injection internal combustion engine according to claim 1, wherein

the mixing chamber is provided with a fresh air intake and a fuel intake, with the fresh air and fuel intakes being provided with an air injection valve and a fuel injection valve, respectively.

3. (Currently Amended) A mixture supplying apparatus for a direct injection internal combustion engine according to claim 1, wherein

the mechanism ~~valve~~ train that opens and shuts the ~~exhaust~~ outlet opening is an outwardly opening valve.

4. (Currently Amended) A mixture supplying apparatus for a direct injection internal combustion engine according to claim 2, wherein

the air injection valve is operatively arranged to inject ~~injects~~ air to ~~the~~ inside of a ~~radius~~ radial direction from the mixing chamber, and the fuel injection valve ~~injects~~ is operatively arranged to inject fuel along a centerline of the mixing chamber to the mixing chamber.